NOTE ON CAROTENE PAPER BY DERBY AND DEWITT

(Eastern Regional Research Laboratory, Philadelphia 18, Pennsylvania) By Monroe E. Wall and Edward G. Kelley

ciation of Official Agricultural Chemists method involves extraction by refluxing with 30% acetone in petroleum ether, and the method attributed to Wall and Kelley experimental conclusions of Derby and DeWitt are undoubtedly correct, but we utilizes cold extraction with ethanol-petroleum ether in the Waring Blendor. The ation of Official Agricultural Chemists procedure (2) with a procedure attributed to interpretation of the literature. feel that their naming of the various extraction procedures is based on an incorrect Wall and Kelley (3) for the extraction of carotene from dehydrated alfalfa. The Asso-In a recent communication (1), Derby and DeWitt compared a modified Associ-

both fresh and dehydrated plant material. ethanol-petroleum ether in the Waring Blendor. They applied their procedure to In 1941, Moore and Ely (4) presented the method for extraction of carotene with

technique (4). They did not apply the Waring Blendor extraction to dehydrated acetone in petroleum ether, and fresh tissue was extracted by the Moore and Ely methods were presented. Dehydrated material was extracted by refluxing with 30% In 1943, Wall and Kelley published their carotene procedure (3). Two extraction

the method of Moore and Ely. hydrated products, whereas the procedure attributed to Wall and Kelley is actually Chemists procedure is essentially the same as the Wall and Kelley method for de-It is obvious, therefore, that the modified Association of Official Agricultural

REFERENCES

- DERBY, J. V., and DEWITT, J. B., This Journal, 31, 704 (1948).
- "Changes in Methods of Analysis," Ibid., 31, 111 (1948).
 WALL, M. E., and KELLEY, E. G., Ind. Eng. Chem., Anal. Ed., 15, 18 (1943).
- Moore, L. A., and Elx, R., Ibid., 13, 600 (1941).

¹ One of the laboratories of the Bureau of Agricultural and Industrial Chemistry, Agricultural Research Administration, United States Department of Agriculture.